

NIKIFOROVA, V.M., kand. tekhn. nauk; YEREMIN, N.I., kand. fiz.-mat. nauk;
RESHETKINA, N.A., inzh.; YEVGRAFOV, A.V., inzh.

Using high-frequency electric-resonance apparatus in determining
the tendency of steel to intergranular corrosion. Trudy TSNIITMASH
92:83-92 '59.
(MIRA 12:8)
(Steel--Corrosion) (Electronic instruments)

NIKIFOROVA, V.M., kand. tekhn. nauk; RESHETKINA, N.A., inzh; SMUROV, V.S.,
inzh.

Studying breakdown characteristics of carbon disulfide furnaces
and investigating corrosion resistance of various materials under
operating conditions. Trudy TSNIITMASH 92:158-178 '59.

(MIRA 12:8)

(Iron--Corrosion) (Carbon disulfide)

PAGE I BOOK EXPERTISE

807/555

Vsesoyuznyj sovet nauchno-tekhnicheskikh obshchestv i tv

Mnicheskaya korroziya (korroziya metallov v nepravilnykh usloviyakh i tv
 (Intermetallics and Stress Corrosion of Metals) Moscow, Metall, 1980.
 350 p. 5,000 copies printed.

Rd.: I.A. Lervis, Candidate of Technical Sciences; Ed. of Publishing House:
 I.I. Leshchenko, Engineer; Tech. Ed.: V.P. K. Blod; Publishing Ed. for
 Literature on Metallurgy and Instrument Making (Metall); V.T. Baturinets,
 (Chairman); V.P. Karyazin, Candidate of Technical Sciences; V.M. Starikov,
 Candidate of Technical Sciences, and A.V. Purnikov, Candidate of Technical
 Sciences.

PURPOSE: This collection of articles is intended for technical personnel concerned
 with problems of corrosion of metals.

CONTENTS: The collection contains discussions of intercorrosion, corrosion of
 stainless steels and stress corrosion of various steels, low-alloy and stainless
 steels, and lightweight and nonferrous alloys. The tendency of steels to
 various composition and systems to corrode under certain conditions is discussed
 and the nature of corrosion and corrosion cracking is analyzed. No permanent
 laws are mentioned. Most of the articles are accompanied by bibliographic references.
 the majority of which are Soviet.

Purnikov, I. V., Candidate of Technical Sciences, and L.M. Gromovskaya,
 Engineer. Rapid Method of Determining the Resistancy of Stainless Steels
 toward Intermetallics Corrosion 162

III. STRESS CORROSION OF STAINLESS STEELS

Slobobchikov, A.V., Doctor of Chemical Sciences, Professor, and
 T.N. Mikhaylova, Senior Scientist; Novosibirsk, Candidate of Technical
 Sciences. The Role of Electrochemical Factors in the Process of
 Stress Corrosion of Austenitic Steels 176

Sogom, B., Candidate of Technical Sciences, and T.M. Matayev, Jr.,
 Junior Scientific Worker. Effect of Various Environments on the Stress
 Corrosion of Austenitic Steels at Supercritical Parameters
 Slobodchikova, A.V., Candidate of Technical Sciences (Became). Stress
 Corrosion of Metals in Sulfur-Containing Environments 198

G.I. Naumkin, E.O. Tsvetkov, I.A. Krushin, Candidates of Technical Sciences, and
 D.I. Naumkin. Resistance of Bimetallic Steel to Corrosion
 Erosion Depending Upon the Uniformity of Structure and Mechanical Properties 217

IV. STRESS CORROSION OF CARBON STEELS AND LOW-ALLOY STEELS

Ashutdin, F.F., Candidate of Technical Sciences. Corrosion Cracking of High-
 Strength Steels 231

Krisel', R.M., Corrosion Cracking of Welding Equipment Made of Carbon
 Steel in Sodium Nitrate Solutions 253

Vlach, V.A., Candidate of Technical Sciences. The Effect of Hydrogen
 Diffusion on Steel on Its Endurance 254

A.O. Veremets, I.A. Avtina, and V.I. Karyazin, Engineers, participated
 in this study prepared at the Novokryv'ia Plant, I.Y. Stalin
 Moscow Steel Institute I.Y. Stalin:

Editor, O.G. Engelshev, G.I. Vul'fson, G. I. Chereka, Candidate
 of Technical Sciences, and L.D. Zal'dino-Sabot, Engineer
 Safety Valve Springs in Contact with Dissolved Gases and
 Unburned Gases 269

152

Card V9

NIKIFOROVA, V.N.; TEPOLOVA, R.V.; MOLODOVA, R.G.; LYADOVA, G.A.

[Chemical and physical characteristics of "Iris" toffee
and hard candy filling] Khimicheskie i fizicheskie kha-
rakteristiki irisa i nachinok karameeli. Moskva, Tsentr.
in-t nauchno-tehn. informatsii pishchevoi promyshl.,
1964. 26 p. (VNIKA 18:4)

ACCESSION NR: AP4030665

S/0129/64/000/004/0025/0029

AUTHOR: Nikiforova, V. M.; Kharina, I. L.

TITLE: Effect of chromium and silicon on the corrosion resistance of low-alloy and silicon steels in superheated steam.

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 4, 1964, 25-29

TOPIC TAGS: low alloy steel, silicon steel, corrosion resistance, chromium steel, pearlitic steel, superheated steam

ABSTRACT: The effect of chromium and silicon on the corrosion resistance of pearlitic steel and of commercial steels in superheated steam was studied. Experimental steels based on 20KhMF and containing 0-22% Cr, and the following commercial steels were examined: Steel 10, 12Mkh, 12KhMF, 20KhMF, 15Kh1M1FS, K2, 12Kh2MfSR, P3, P3S, type P3, 1Kh2M, Kh5M, 1Kh12V2MF, EI755, 1Kh12MF, 1Kh12MFB, 1Kh12M2FB, EP39 and 1Kh13M1F. Corrosion resistance was determined by weight loss in the sample after removing the corrosion products. The maximum weight loss at 500°C was in steel containing 5% Cr, at 550°C in 2% Cr-containing steel, and at 600°C with 1% Cr. Weight loss approached negligible values at all temperatures as the Cr content

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ACCESSION NR: AP4030665

was increased to about 14% and higher. Silicon in amounts of 0.01-0.4% increased the corrosion resistance of low-alloy steel in superheated steam. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: TsvNIITMASH

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF Sov: 001

OTHER: 000

Card

2/2

MAKAROVA, G.A., doktor med.nauk; NIKIFOROVA, V.N., starshiy laborant

Significance of the urine color sedimentation test with silver nitrate in dysentery in children. Kaz.med.zhur. 40 no.3:32-35
My-Je '59. (MIRA 12:11)

1. Iz kafedry propedevtiki detskikh bolezney (zav. - doktor med. nauk G.A.Makarova) Kazanskogo meditsinskogo instituta, na baze 4-y gorodskoy detskoj bol'nitsy (glavvrach - Ye.V.Moskvina).
(URINE--ANALYSIS AND PATHOLOGY)
(DYSENTERY)

NIKIFOROVA, V.N.

YEVSTIGNEYEV, V.B.; NIKIFOROVA, V.N.

Modification of the ultraviolet absorption spectrum of aqueous glucose solutions in warming. Biokhimiia, Moskva 15 no.1:86-93 Ja-F '50.
(CLML 19:3)

1. Institute of Biochemistry imeni Bakh of the Academy of Sciences USSR, Moscow, and the All-Union Scientific-Research Institute of the Confectionery Industry, Moscow.

10

CA

Effect of the pH of the medium on the decomposition of glucose solutions on heating. V. H. Kostigreev and V. N. Nikiforova. *Doklady Akad. Nauk SSSR* **73**, 521-6 (1950).—Ultraviolet absorption spectra were taken of glucose solns. boiled 30 hrs. at pH 2-9 (initially adjusted by addn. of HCl or NaOH); in all cases 2 bands, 230 and 280 m μ , were observed (the curves are reproduced) but the intensities underwent a profound change. The 230 m μ band develops most slowly at pH about 3 and the 280 m μ band has the least intensity at pH 4-6; both after boiling 1 hr. The latter band undergoes moderate frequency shifts with changes of pH; it is believed that the peak of 275-80 m μ corresponds to glucose with a free carbonyl group, while that of 282.5 m μ corresponds to (hydroxymethyl)furfural, which does not form at pH higher than 4.5-5.0. The results indicate that if the original pH is above 5, (hydroxymethyl)furfural forms rapidly only after the acidic products of decompn. lower the pH below that figure, the total decompn. of glucose is accelerated at pH above 5-6 owing to the presence of the free carbonyl form, while an acceleration below pH 3-4 is caused by rapid and extensive dehydration. The formation of the carbonyl form is facilitated by higher pH; the product loses H₂O on heating and yields the primary decompn. products absorbing at 280 m μ , but further dehydration to (hydroxymethyl)furfural is retarded by increased pH and is accelerated only if the pH is under 4. The intersection point of the 2 curves representing these factors lies at about pH 5 in brief heating periods at 100°C; while for longer expts. it is about pH 3. These concepts have been confirmed by boiling glucose solns. 1 hr. at pH 3.05, 4.86, and 9.14, then adjusting to pH 1.5 by HCl and boiling 0.5 hr. longer; the absorption intensities at 282.5 and 230 m μ showed a progressive rise with the pH of the initial soln., an especially high value being obtained from the pH 8.14 soln. G. M. Kosolapoff

YEVSTIGNEYEV, V.B.; NIKIFOROVA, V.N.

Effect of heat on absorbability spectrum changes in fructose solutions.
Doklady Akad. nauk SSSR 81 no.4:651-654 1 Dec 51. (CIML 21:5)

1. Presented by Academician A.I Oparin 28 September 1951. 2. All-Union
Scientific-Research Institute of the Confectionary Industry and the
Institute of Biochemistry imeni A.N. Bakh of the Academy of Sciences
USSR.

NIKIFOROV, V. V.

NIKIFOROV, V. V. - "Investigation of the Transformations of Sugar and Treacle under Conditions of Preparation of Caramel Glass and a Search for a Method of Increasing the Stability of the Caramel." Min. of Higher Education RUF, Moscow Technical Inst. of Food Industry, Moscow, 1951 (Dissertations for Degree of Candidate of Technical Sciences)

SC: Knizhnaya Letopis' No. 26, June 1951, Moscow

NIKIFOROVA, V.N.; SOKOLOVSKIY, A.L.

Effect of products resulting from the breaking down of sugars on
the properties of caramell. Ref. nauch. rab. VKNII no.1:36-39 '57.
(Caramell)

SOKOLOVSKIY, A.L.; NIKIFOROV, V.N.

Effect of various compositions of sirup carbohydrates on the stability of caramel. Khleb. i kond. prom. 1 no.3:12-15 Mr '57.

(MIRA 10-4)

1. Vsesoyuznyy konditerskiy nauchno-issledovatel'skiy institut.
(Caramel) (Carbohydrates)

NIKIFOROVA, V.N.

Effect of methods of preparing invert syrups on the stability of
caramel. Khleb. i kond. prom. l no.5:9-12 My '57. (MLRA 10:6)

1. Vsesoyuznyy konditerskiy nauchno-issledovatel'skiy institut.
(Caramel) (Syrups)

NIKIFOROV, V.N.

New data on the composition of corn sirup (from "Baker's Digest," no.5 1956). Khleb. i kond. prom. l no.9:48 3 '57. (MIRA 10:11) (Corn products) (Glucose--Analysis)

Products of sugar degradation and their effect on the
properties of caramels / A. I. Sogolovskii and V. N.
Nikitorgova. Zhur. Priklad. Khim. 30, 1261-5 (1957), cf.

U.S. 4,46,5007d. - Spec. of the products of degradation of sugars during caramelization was effected by paper chromatography. Hydroxymethylfurfural (I) formed in appreciable quantities in dil. sugar solns., but very little in concd. (70%) solns. and then only after prolonged heating. Condensation products (II) formed in appreciable amounts in concd. soln. Apparently H_2O accelerates irreversible processes, i.e. dehydration resulting in I and humus (cf. U.S. 44,5212c). To study the effect of these products on the properties of caramels they were added in relatively pure states during the process of caramelization. I was prep'd. by EtOAc-extr. from sugar solns. refluxed 20 hrs. and decolorized with activated C. Humus was prep'd. as a slightly sol. brown powder or as a colored soln. by dialysis of a heated soln. of sucrose; II was obtained by fermentation of a 7-8% sucrose soln. The addn. of I (0.37 and 0.73%) and of humus (0.25 and 0.1%) gave caramels which crystd. after 1-2 days. Caramels with 1.3% II crystd. after 6 days and those with 10% II did not crystallize after 8-8 months. The presence of fructose tends to form hygroscopic material.

L. Bencosme

4
4Bd
4B4

SOKOLOVSKIY, A.L.; BYSTROVA, L.G.; NIKIFOROVA, V.N.

Change in sugars during the production of milk caramel.
Izv.vys.ucheb.zav.; pishch.tekh. no.3:54-56 '59.

(MIRA 12:12)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti. Kafedra konditerskogo i makaronnogo proizvodstva.
(Caramel)

SOKOLOVSKIY, A.L.; NIKIFOROVA, V.N.; GREYSER, R. Ya.

Effect of the composition of carbohydrates in sirups on the keeping quality of caramel. Trudy VKNII no.14:32-42 '59. (MIRA 14:5)
(Caramel) (Carbohydrates)

NIKIFOROVA, V.N.; SOKOLOVSKIY, A.L.

Formation of melanoidins in the process involving the preparation
of iris. Izv.vys.ucheb.zav.;pishch.tekh. 1:17-22 '61.

(MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konditerskoy
promyshlennosti i Moskovskiy tekhnologicheskiy institut pishchevoy
promyshlennosti, Kafedra konieterskogo i ~~markarenhogo~~ proizvodstva.
(Iris) (Melanoidins)

5.2200

5-247

SCV - 000-1-10-11

AUTHORS: Losev, V. I., Nikitrova, V. S.

TITLE: Brief Communications. Germanium in Coal

PERIODICAL: Zhurnal prikladnoy khimii, 1966, Vol 19, No 5, pp 711-732 (USSR)

ABSTRACT: This is a short review of the various theories on the mechanism of the accumulation of germanium in coal, and of the several methods of extraction, such as combustion, halogenation, ultrasonics, and gamma ray exposure. The authors found that up to 30% of the germanium contained in coal can be extracted by bromination as water-soluble germanium tetrabromide. From 14 to 33% of germanium contained in brown coal was extracted by subjecting the latter to ultrasonics. The yield was increased to 50% by combining the method of bromination with that of the ultrasonics. There are 14 Soviet references.

SUBMITTED: December 8, 1983
Card 1/1

NIKONOVA, V. V.

SEMINAR' VYIZVANII

Obzor svedenii o vsem. Pod red. Moskva, Mashgiz, 1951. 44 p.

9. Monthly List of Russian Accessions, Library of Congress, November 1958, Unclassified.

2

DEVYATNIN, V.A.; NIKIFOROVA, V.V.; SOLUNINA, I.A.

Colorimetric method of determining $\text{Na}-\alpha$ -oxymethylene - β - ethoxypropionitrile. Trudy VNIVI 8:97 '61. (MIRA 14:9)

1. Khimiko-analiticheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo vitaminnogo instituta.
(Colorimetry) (Nitriles)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136920016-2

NIKIFOROVA, Ie., polkuvnik v. o. s. r.

Women's Guards Guards' Club, Voenn. znam. 41, n. o. 14 N 161
"MIRA 18"

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136920016-2"

NIKIFOROVA, Ye. D.

Painting in a high-tension electric field. Avt. i trakt. prom.
no.1:38-40 Ja '56. (MLRA 9:6)

1.Gor'kovskiy avtozavod imeni Molotova.
(Automobiles--Painting)

NIKIFOROVA, Ye.D.; KLIBANOVA, F.I.

Industrial painting of the Volga automobiles. Avt.i trakt.prom.
no.9:30-32 8 '57. (MIRA 10:11)

1. Gor'kovskiy avtozavod.
(Automobiles--Painting)

KISELEV, I.I.; BORISOV, N.I.; YASINOVSKIY, B.S., inzh.; SANNIKOV, Yu.K., inzh.;
SOKOLOV, V.A., inzh.; LEVCHENKO, L.D., inzh.; HALOYEV, G.A., inzh.;
CHICHAKOV, K.K., inzh.; BARYKIN, V.I., inzh.; FREYDLIN, A.Ya., inzh.
GULYAYEV, A.I., inzh.; STIGHEYEV, Ya.F., inzh.; SHAGANOVA, K.N., inzh.;
KHEDIMSKIY, I.Ye., inzh.; AVROV, A.N., inzh.; DEMIDOVA, M.I., inzh.;
NIKIFOROVA, Ye.D., inzh.; KLIBANOVA, F.I., inzh.; CHIVKUNOV, K.I.,
inzh.; STOROZHKO, I.G., inzh.; NOVAKOVSKIY, Ye.Ya., inzh.; GOYKHTUL',
A.O., inzh.; TARASOV, A.M., inzh.; SHISHKO, A.P., inzh.; UVAROV,
P.T., ekonomist; DRAGUNOV, M.V., ekonomist; KARANDASHOV, A.A.,
ekonomist; KOMKIN, M.V., ekonomist; GOREV, M.S., ekonomist. Pri-
nimali uchastiye: LAPIN, T.I.; RAMENSKIY, Yu.A.; KADINSKIY, B.A.;
SOKOLOV, S.D.; STOROZHKO, I.G.; FOMINYKH, A.I.. POLYAKOVA, N.,
red.; SMIRNOV, G., tekhn.red.

[Organization and improvement of production; practices of the
Gorkiy Automobile Plant] Organizatsiya i sovershenstvovaniye
proizvodstva; opyt Gor'kovskogo avtozavoda. Moskva, Gos. izd-vo
polit. lit-ry, 1958. 332 p. (MIRA 12:2)

1. Direktor Gor'kovskogo avtomobil'nogo zavoda (for Kiselev).
2. Glavnnyy inzhener Gor'kovskogo avtomobil'nogo zavoda (for Borisov).
3. Gor'kovskiy avtomobil'nyy zavod (for all except Kiselev, Borisov,
Polyakova, Smirnov).

(Gorkiy--Automobile industry)

MAYSKAYA, Lyubov' Pavlovna; GRIGOROVICH, Marianna Filosofovna;
NIKIFOROVA, Yelena Dmitriyevna; VOSKRESENSKIY, N.N., red.;
GALAKTIONOVA, Ye.N., tekhn. red.

[Maintenance of the paint and varnish coating of an automobile]
Ukhod za lakokrasochnym pokrytiem legkovogo avtomobilia. Moskva, Avtotransizdat, 1962. 74 p. (MIRA 16:5)
(Automobiles—Maintenance and repair)

NIKIFOROV, Ye.F.

Spectrographic analysis technique for determining arsenic in steel.
Izv. AN SSSR. Ser. fiz. 19 no. 2:190-191 Mr-Ap '55. (MLRA 9:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo
transporta. (Tartu--Spectrum analysis--Congresses)

PAGE 1 BOOK EXPLORATION

24(7)

SOV/1700

Inov. Universitet

Materialy X Vsesoyuznogo sveshchaniya po spektroskopii, 1956.

t. XI. Atomnaya spektroscopiya (Materials of the 10th All-Union Conference on Spectroscopy, 1956. Vol. XI. Atomic Spectroscopy) Theory. Izd-vo Liveratsionnoi univ. 1958. 568 p. (series: Ita: Fizicheskii zhurnik, vyp. 4(9)) 3,000 copies printed.

Additional sponsoring agency: Akademiya nauk SSSR. Sovershite po spektroskopii.

Editorial Board: G.J. Landberg, Academician, (Phys. Sci.); B.S. Repin, Doctor of Physical and Mathematical Sciences;

I.L. Pablinitsky, Doctor of Physical and Mathematical Sciences;

V.A. Fabrikant, Doctor of Physical and Mathematical Sciences;

V.G. Koritsadzy, Candidate of Technical Sciences; I.K. Klimovskaya,

Candidate of Physical and Mathematical Sciences; V.S. Miliyarchuk,

(deceased), Doctor of Physical and Mathematical Sciences; A.Ye.

Gleberman, Doctor of Physical and Mathematical Sciences;

Sh. A.M. Gasser, Tech. Sci.; T.V. Sarayuk.

Purpos: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectra analysis in various industries.

Coverage: This volume contains 177 scientific and technical studies of atomic spectroscopy presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy: spectra of rare earths, uranium production, physical methods for controlling electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharge, optics and spectroscopy, abnormal dispersion, metal vapors, spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopes, tables and atlases of spectral lines, spark spectrographic analysis, statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermochimistry in metallurgy, and principles and practice of spectrochemical analysis.

Card 2/31

Materials of the 10th All-Union Conference (Cont.)

SOV/1700

Borbat, A.M. Consideration of the Effect of Tertiary Compounds in the Analysis of Copper-base Alloys 435

Kozenets, T. Ya., and V.A. Zaytseva. Spectral Determination of Cu, Sn, Sb, Bi, and As in Lead Antimonide 438

Biloforov, Ye.P. Spectrographic Determination of the Relation-ship Between Phosphorus and Arsenic Distribution in Steel 439

Puzner, R.L. Experience in Spectrometry Using Plated Curves in the Production of Metal Electrolytic Corundum 441

Prokop'eva, A.B. Spectrum Analysis of Aluminum and Glass 446

Rastanovich, I.N. Spectrograph for the Analysis of Molten Metal 451 and Zinc

Rutakovchen, I.M. Simple Photoelectric Units for Measuring Spectrum Analysis Utilizing the Total Intensity of Many Lines 457

Card 25/31

SOV 57-57-1-171

Translation from: Referativnyy zhurnal Metallurgiya, 1957, Nr ., p .82 (USSR)

AUTHOR: Nikiforova, Ye F

TITLE: On the Character of the Distribution of Arsenic in Structural Steel
(O kharaktere raspredeleniya mysh'yaka v stroitel'noy stali)

PERIODICAL: Tr Vses n-i in-ta zh-d transp , 1956, Nr 116, pp 62-70

ABSTRACT: The author investigated the macroliquation of As in structural St 3 steel using the spectroscopic method. General-purpose steel strip with artificially introduced As and steel channel with a natural As impurity served as specimens in the testing. It was established that the As in structural St 3 steel is unevenly distributed. The liquation (L) is especially sharply exhibited in cross sections, there is less L on the surface of the strip. The L does not depend on the percentage content of As. L is greater in rimmed than in killed steel. The L of As is related to the L of other impurities. As is distributed in the same manner as S and accumulates along the boundaries of the liquation zones.

A M

Card 1/1

NIKIFOROVA, Ye. F., inshener.

Carbonization of the "white layer" on the surface of wheels and
rims. Vest. TSMII MNE 16 no.4:55-56 Je '57. (MERA 10:8)
(Car wheels)

NIKIFOROVA, YE.F.

30V/81-59-19-67712

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 19, p 122 (USSR)

AUTHOR: Nikiforova, Ye.F.

TITLE: The Spectrographic Determination of the Relation Between the Distribution of Phosphorus and Arsenic in Steel

PERIODICAL: Fiz. sb. L'vovsk. un-t, 1958, Nr 4(9), pp 439 - 441

ABSTRACT: At the excitation of the spectra in an a-c arc at 14 a with an auxiliary carbon electrode As and P are determined simultaneously in steel from the lines: P 2149.1-Fe 2150.18 and As 2288.1-Fe 2282.1 A. The spectra are photographed on a medium-sized quartz spectrograph with an arc gap of 2 mm without illuminating lenses; "spectral" plates of type III are used, the distance between the slit and the arc is 12 cm, the exposure 60 sec without burning. The results of the spectral determinations agree well with the data of chemical analysis. The conclusion is reached that there is a well expressed relation between the content of P and As in arsenic steels and that these 2 elements are found in the same liquidation zones.

G. Kibisov

Card 1/1

NIKIFOROVА, Ye.F., inzh.

Spectrographic investigation of arsenic rail steel. Trudy TSNII
MPS no.154:110-120 '58. (MIRA 12:1)
(Railroads--Rails) (Arsenic)

NIKIFOROVA, Ye.F., inzh.

Methods of spectrographic analysis of ferrous metals and their
use for the study of physical metallurgy. Trudy TSNII MPS
no.227:39-61 '62. (MIRA 15:4)
(Iron alloys—Spectra) (Physical metallurgy)

NIKIFOROV, Ye.F., inzh.; TARASENKO, A.Ya., kand. tekhn. nauk

Distribution of the chemical elements in the micro structure
of high-strength cast iron. Vest. TSMU 1964 23 no.8:43-46
(MIRA 18:2)
164

BAULIN, I.S., inzh.; NIKIFOROVA, Ye.F., inzh.

Microspectral analysis of the area of the formation of contact
fatigue defects in rail steel. Vest. TSNII MPS 24 no.4:58-59
'65. (MIRA 18:7)

LAZAREV, T.M., kand.sel'skokhozyaystvennykh nauk; BOGOMYAGKOV, S.T.,
kand.sel'skokhozyaystvennykh nauk; NIKIFOROVA, Ye.G.

"Barnaul'skaia 32" spring wheat. Agrobiologija no.6:911-912
(MIRA 15:2)
N.-D '61.

1. Altayskiy nauchno-issledovatel'skiy institut sel'skogo
khozyaystva, g. Barnaul.
(Wheat--Varieties)

DORFMAN, L.L., kandidat meditsinskikh nauk; NIKIFOROV, Ye.I.

Partial relaxation of the right dome of the diaphragm simulating echinococcosis. Vest. rent. i rad. 31 no.4:71-74 Jl-Ag '56.

(MIRA 9:10)

1. Iz khirurgicheskogo otdel. (zav. - kandidat meditsinskikh nauk L.L.Dorfman) bol'nitay medсанchasti Khlopchatobumazhnogo kombinata g. Orekhovo-Zuyevo (nach. medсанchasti Ye.N.Orlova)

(LUNG DISEASES, differ. diag.

echinococcosis form partial relaxation of right side of diaphragm)

(ECHINOCOCCOSIS, differ. diag.

lung. differ. diag. from partial relaxation of right side of diaphragm)

(DIAPHRAGM, dis.

partial relaxation of right side, differ. diag. from echinococcosis of lung)

SARTAN, V.A.; NIKIFOROVA, Ye.I.

Calcification of an echinococcal cyst of the spleen. *Khirurgia* 34
no.9:103-104 S '58. (MIRA 12:4)

1. Iz khirurgicheskogo otdeleniya bol'nitay Mediko-sanitarnoy chasti
khlopchatobumazhnogo kombinata Orekhovo-Zuyeva (glavnnyy vrach Ye.N.
Orlova).

(SPLEEN--HYDATIDS)

NIKIFOROV, Ye.L. (Moskva)

Detection of cardiac pathology by fluorography. Klin.med. 37
no.4:122-127 Ap '59. (MIRA 12:6)

1. Iz mediko-sanitarnoy chasti khlopcatobumazhnogo kombinata
(glavnnyy vrach Ye.N.Orlova), oblastnoy rentgenodiagnosticheskoy
stantsii (zav. G.Ya.Shvabauer) i rentgeno-radiologicheskogo
otdela (zav. - kandidat meditsinskikh nauk V.I.Petrov) Moskov-
skogo oblastnogo nauchno-issledovatel'skogo klinicheskogo
instituta imeni M.F.Vladimirskogo (dir. - kandidat meditsinskikh
nauk P.M.Leonenko).

(HEART DISEASES, diag.
photofluorography (Rus))

NIKIFOROVA, Ye.I. (Orekhovo-Zuyevo)

Organization of the fluorographic study of textile workers in
Orekhovo-Zuyevo. Sov.zdrav. 19 no.2:42-47 '60. (MIRA 31:5)

1. Iz mediko-sanitarnoy chasti khlopchatobumazhnogo kombinata
(glavnnyy vrach Ye.N. Orlova), Moskovskoy oblastnoy rentgenodiag-
nosticheskoy stantsii (zav. - G.Ya. Shvabauer) i rentgeno-radio-
logicheskogo otdela (zav. - kand.med.nauk V.I. Petrov) Moskovskogo
oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta
imeni M.F. Vladimirskego (dir. - kand.med.nauk P.M. Leonenko)
(OREKHOVO-ZUYEVO--DIAGNOSIS, FLUOROSCOPIC)

NIKIFOROVA, Ye.I.

On detecting lung diseases, based on two fluorographic examinations
of textile workers in Oerkhovo-Zuyev. Probl.tub. 38 no.4:28-32 '60.
(MIRA 14:5)
(LUNGS—RADIOGRAPHY)

NIKIFOROVА, Ye. I.

Role of fluoroscopic examination in the determination of
lung cancer in textile workers of the Orekhovo-Zuyevо Cotton
Combine. Vop. klin. pat. no.2:187-200 '61 (MIRA 16:12)

1. Iz Orekhovo-Zuyevskoy bol'nitsy.

NIKIFOROVA, Ye.I.

Causes of errors in the X-ray diagnosis of stomach cancer;
analysis of 12 years' data. Vest. rent. i rad. 38 no.5:
42-46 S-0'63 (MIRA 16:12)

1. Iz rentgenovskogo otdeleniya 1-y gorodskoy bol'nitsy
Orekhovo-Zuyeva.

NIKIFOROVA, Yev~~nya~~ prof.

Treatment of congenital hip dislocation in children and adolescents.
Acta chir. orthop. traum. czech. 26 no.5-6:486-490 1951.

1. Iz TSentral'nogo instituta travmatologii i ortopedii Ministerstva
zdravookhraneniya SSSR - direktor - deystvitel'nyy chlen AMN SSSR,
prof. N. N. Priorov.
(HIP, fract. & disloc.)

NIKIFOROVA, Ye.K., professor

Late results of open reduction of congenital dislocation of the hip in children and adolescents. Ortop., travm. i protez. 18 no.1: 15-20 Ja-F '57. (MLRA 10:6)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent Akademii meditsinskikh nauk SSSR prof. N.N. Priorov)
(HIP, disloc.
congen., surg. in child. & adolescents)

NIKIFOROVA, Ye.K., professor (Moskva, ul. Alekseya Tolstogo, d.24, kv.31)

Surgical treatment of sequelae of poliomyelitis [with summary in English]. Vest.khir. 78 no.4:3-12 Ap '57. (MIR 10:9)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - prof. N.N.Priorov) Ministerstva zdravookhraneniya SSSR
(POLIOMYELITIS, surgery,
(Rus))

NIKIFOROV, Ye.K., prof.

Docent V.N. Blokhin; on his 60th birthday. Ortop. travm. i protez
19 no. 4:82-83 J1-Ag '58 (MIRA 11:11)
(BLOKHIN, VLADIMIR NIKOLAEVICH, 1898-)

BLOKHIN, V.N., dots.; BOGDANOV, F.R., prof.; VAYNSHTEYN, V.G., prof.; GODUNOV, S.F., doktor med. nauk; MIREYNT, I.M., kand. med. nauk; MOVSHEVICH, I.A., kand. med. nauk; VOLODAYA, Ye.K., prof.; NIKIFOROVA, Ye.K., prof.; NOVACHENKO, N.P., prof.; ROZOV, V.I., prof.; CHAKLIN, V.D., prof.; YAZYKOV, D.K., prof.; PETROVSKIY, S.V., prof., otv. red.; SENCHILO, K.K., tekhn. red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khirurgii. Moskva, Izdiz. Vol. 11, book 1. [Surgery of the upper extremities] Khirurgia verkhnei konechnosti. 1960. 518 p. (MIRA 15:3)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Bogdanov, Novachenko, Chaklin). 2. Deystviteльnyy chlen Akademii meditsinskikh nauk SSSR (for Petrovskiy).

(EXTREMITIES, UPPER--SURGERY)

NIKIFOROVA, Ye.K.

Paralytic scoliosis and its surgical therapy. Ortop.travm.i
protez. 21 no.6:28-33 Je '60. (MIRA 13:12)
(SPINE--ABNORMITIES AND DEFORMITIES)

NIKIFOROVA, Ye. K., professor

Evaluation of the late results of osteoplastic fixation of the spine in children and adolescents. Vest. khir. no.4:55-60 '62.
(MIRA 15:4)

1. Iz detskogo otdeleniya (zav. - prof. Ye. K. Nikiforova)
TSentral'nogo instituta travmatologii i ortopedii Ministerstva
zdravookhraneniya SSSR (dir. - prof. N. N. Priorov[deceased]).
Adres avtora: Moskva, Teplyy per., d. 16, TSentral'nyy institut
travmatologii i ortopedii.

(SPINE—SURGERY) (BONE GRAFTING)

NIKIFOROV, Ye.K., prof.; TYAZHELKOVA, P.O.; SAMOYLOVA, L.I.

Remote results of open fixation of congenital hip dislocation
in children and adolescents. Khirurgia (Sofia) 16 no.10:
897-906 '63.

1. Tsentralen institut po travmatologii i ortopediiia, Moskva.
Direktor: prof. M.V.Volkov.

*

NIKIFOROVA, Ye.K., zasluzhennyy deyatel' nauki; VOLKOV, M.V., prof.;
KAPTELEN, A.F., starshiy nauchnyy sotrudnik.

Detection and early treatment of postural defects and scoliosis
in children. Khirurgija 39 no.4:109-114 April (MIRA 1981)

1. Iz TSentral'nogo instituta imatmatologii i ortopedii (dr.
prof. M.V.Volkov) Ministerstva zdravookhraneniya SSSR.

NIKIFOROVA, YE M.

USSR/Human and Animal Physiology - Nervous System.

V-12

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4483

Author : Ye.M. Nikiforova

Inst : Institute of the Higher Nervous Activity, Academy of Sciences USSR

Title : Effects of Delayed Inhibition of Motor Conditioned Reaction on the Heart and Circulation System (Preliminary Report)

Orig Pub : Ser patofizioli; 1956, 2, 201-208

Abstract : In 20 children (age: 10-12) conditioned motor reflex delayed by 10 seconds was developed with speech reinforcement; the plethysmogram showed a contraction of the vessels which happened before a stable connection had formed and which decreased as the stabilization of the reflex became more protracted.

Card 1/2

NIKIFOROVA, YE. N.

PA 48/49T70

USER/Medicine - Trophic Ulcers, Mar/Apr 49

Medicine - Trophic Ulcers, Microflora

"Biologic Character of Microflora Found in
Trophic Ulcers," Ye. N. Nikiforova, Cand. Med.
Sci., Clinical Diagnostic Lab, Inst. of Neuro-
surg imeni Acad. N. N. Burdenko, Acad. Med. Sci
USSR, 3 pp

"MOP Neyrokhirurgii" Vol XIII, No 2

Four types of microbes are generally associated
with trophic ulcers of the lower extremities:
streptococcus, staphylococcus, proteus and
diphtheroid. Streptococcus is observed most

48/49T70

USER/Medicine - Trophic Ulcers,
Physiology (Contd) Mar/Apr 49

frequently (31 out of 44 cases), and belongs
to type known as fecal streptocci. No
established data exists on clinical course or
healing of ulcer after operation.

48/49T70

NIKIFOROVA, Ye N.; MIKHEYEVA, Ye. V.

Effect of brain preparations on the development of microflora.
Vopr. neirokhir. 15 no. 4:32-35 July-Aug. 1951. (CIML 21:3)

1. Of the Clinic Diagnostic Laboratory (Head — Prof. L. G. Smirnova), Institute of Neurosurgery imeni Academician N. N. Burdenko (Director -- Prof. B. G. Yegorov, Corresponding Member of the Academy of Medical Sciences USSR).

NIKIFOROVA, Ye. N. (Leningrad, pr. Engel'sa, d. 28, kv. 53)

Effect on endothelium cultures of blood sera of patients suffering
from erythremia. Vop. onk. 6 no.12:29-33 '60.
(MIRA 15:7)

1. Iz laboratorii eksperimental'noy morfologii (zav. - deystvite-
tel'nyy chlen AMN SSSR prof. N. G. Khlopin) Instituta onkologii
AMN SSSR (dir. - deystvitelel'nyy chlen AMN SSSR prof. A. I.
Serebrov).

(ERYTHREMIA) (SERUM) (ENDOTHELIUM)

KAMENSKAYA, N.L. (Leningrad, V.O., 10-ya liniya, 15b, kv.18); NIKIFOROVA,
Ye.N.

Endothelium of the dilated and contracted aorta. Arkh. anat. gist.
1 embr. 38 no. 5:76-80 My '60. (MIRA 14:2)

1. Laboratoriya eksperimental'noy morfologii (zav. - deystviteľnyy
chlen AMN SSSR prof. N.G. Khlopin) Instituta onkologii AMN SSSR.
(AORTA)

NIKIFOROVA, Ye.N.

Growth peculiarities of culture of mammary gland tissues from a noncancerous line (D) following the addition of androsterone and 17- β -estradiol to the culture medium. Biul. eksp. biol. i med. 49 no. 6:92-97 Je '60. (MIRA 13:8)

1. Iz patologo-morfologicheskoy laboratorii (zav. - chlen-korrespondent AMN SSSR prof. M.F. Glazunov) Instituta onkologii (dir. - deystv. chlen AMN SSSR A.I. Serbrov) AMN SSSR, Leningrad. Predstavlena deystv. chlenom AMN SSR A.I. Serebovym.
(ESTRADIOL) (ANDROGENS) (TISSUE CULTURE)
(MAMMARY GLANDS)

ABUKOVA, Ye.N.; GAREYEVA, M.S.; TITOVA, M.N.; DREMOVA, V.P. Prinimali
uchastiye:NIKIFOROV, Ye.N.; REDZHEPOV, N.N.; KLENOVA, M.A.;
KAZAK, A.F.; FURMANCOVA, N.M.; VISHNEVSKAYA, L.A.; SARKISOVA, E.N.

Measures for the control of acute intestinal diseases in Ashkhabad.
Zdrav.Turk. 6 no.4:3-8 Jl-Ag '62. (MIRA 15:8)
(ASHKABAD--INTESTINES--DISEASES)

NIK. F. SVA, Ye.N.

Mitotic activity of the fibroblast of the breast following a
trauma in noncastrated and castrated rats. By I. eksp. biol.
i med. 55 /l.e. 56/ - .11:89-92 - 1983 (VISA 17:8)

I. Iz laboratoriiskix eksperimental'nyx glistologii (zav. - prof.
V.P. Mikhaylov) Instituta eksperimental'noy meditsiny AMN SSSR,
Leningrad. Preobrazovaniye deyatelnosti Lektsii po chlenam AMN SSSR
D.A. Biryukovym.

NIKIFOROVA, Ye.P.; MOROZOVA, V.M.

New methods for the neutralization of sulfite liquors. Gidroliz.i
lesokhim.prom. 11 no.8:26 '58. (MIRA 11:12)

1. Balakhninskiy tsellyulozno-bumazhnyy kombinat.
(Sulfite liquor)

NIKIFOROVA, Ye.P.; MOROZOVA, V.N.

New methods for neutralizing sulfite liquors. Gidroliz i lesokhim.
prom. 12 no.5:22-23 '59. (MIRA 12:10)

1. Balakhninskiy tsellyulozno-bumazhnyy kombinat.
(Sulfite liquor)

NIKIFOROVA, Z.I.

The Soviet Union has ratified the International Convention on
Electrical Communications. Vest. sviazi 22 no.2:31-32 i '62.
(MIRA 15:2)
(Geneva--Congresses) (Telecommunication--Congresses)

OSHCHIPKOV, F.P.; FROLOV, V.K.; Prinimali uchastiye: SAVKINA, G.A., inzh.;
LYAKHOVETSKAYA, M.A., inzh.; SLIVINSKIY, I.G., inzh.; PAPASHINA,
Z.V., tekhnik; MIKIFOROVА, Z.V., tekhnik

Founding of ZS-4 glass in pot furnaces. Stek. i ker. 1 no.7:5-8
Jl '61. (MIFI 14:7)
(Glass manufacture)

L 16919-65 EWT(m)/EWP(v)/EWA(d)/EWP(t)/EWP(k)/EWP(b) PF-4 IJP(c) MJW/JD/HM

ACCESSION NR: AP4045721

S/0135/64/000/009/0016/0017

B

AUTHORS: Bondarev, V. V. (Engineer); Nikiforova, Z. V. (Engineer);
Ban'kowskaya, I. V. (Engineer)

TITLE: Brazing of titanium plated with copper

SOURCE: Svarochnoye proizvodstvo, no. 9, 1964, 16-17

TOPIC TAGS: titanium brazing, OT4 titanium alloy brazing, copper plated titanium brazing, brazed joint microstructure, brazed joint strength

ABSTRACT: Flat plates of OT4 titanium alloy [U. S. RS1108] with a copper coating 10--30 μ thick were brazed to round copper bars using a preplaced 0.1 mm thick strip of brazing alloy (68% Ag, 27% Cu, 5% Sn). The assembled components were pressed together with a pressure of 2--3 kg/mm² to ensure a close contact between them and brazed in a vacuum of 0.001 mm Hg at 780--840C. It was found that for strong joints, titanium should have a plated copper layer 15--20 μ thick. Brazing should be done so as to form a diffusion zone 7--12 μ thick between the titanium and the coating. This can be accomplished

Card 1/2

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ACCESSION NR: AP4045721

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by brazing for 15—20 min at 790—810°C. Brazing in this temperature range produced the strongest joints, with a tensile strength of 17.2—22.1 and 20.8—22.8 kg/mm² at 400°C. At brazing temperatures higher than 820°C, the reaction of titanium with the copper coating produces a brittle eutectic layer. The diffusion zone of the strongest joints is a titanium-copper solid solution with small inclusions of a second phase (1000—3000 Å in size). These inclusions strengthen the solid solution by pinning the dislocations. Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 000

Card 2/2

NIKIFOROVA-MENSHITINA, A.S., Cand. Biol. sci. -- (dis.) "Sources
of ~~water~~ fever, ^{B3} ~~data from~~ Moskovskaya Oblast." Vos, 19
12 pp (First as order of Lenin Med. Inst. in I.M. Sechenov)
20 copies (IL, 33-29, 11)

- 16 -

TARASEVICH, N.N.; NIKIFOROVA-MENSHUTINA, A.S.; RULK V.F., MEL'NIKOVA R.I.

Experience in the preparation of dry antigenic leptospiral suspensions for leptospiral antisera. Zhur. mikrobiol., opiat. imunol. i parazit. (MIIR), No. 110 D 163.

1. Iz Moskovskogo instituta vaktsin i sывороток имени Мечникова.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136920016-2

NIKIFOROVICH, A. A. (Prof.)

"Photo-Synthesis of Plants," Nature, 2nd Printing House of the Publ. Co. of the
AS USSR, Moscow No. 4, 1952.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136920016-2"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136920016-2

KIRINOVICH, A. A., AKHIEZER, V. V., M. V. GROMOVSKAYA, N. P.

"Different ways of transformation of solar energy in living organisms of plants,"
in "Proceedings of the Institute of the Russian Academy of Sciences,"
Moscow, 1976, p. 103.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136920016-2"

NIKIFOROVSKAYA, S. A.

USSR/Biology - Biochemistry

Card 1/1 Pub. 22 - 36/54

Authors : Proskuryakov, N. I., and Nikiforovskaya, S. A.

Title : The activity of amylase on the ripening and sprouting processes of wheat seeds

Periodical : Dok. AN SSSR 102/5, 989-991, Jun 11, 1955

Abstract : Experiments were conducted with purified alpha and beta amylases separated during the ripening and sprouting of wheat seeds for the purpose of establishing the connection between the activity of the amylases and their content of reactive groups (SH-groups). Results obtained are described. Eight references: 4 USSR, 2 Swiss and 2 German (1926-1951). Tables.

Institution : The M. V. Lomonosov State University, Moscow

Presented by : Academician A. I. Oparin , March 1, 1955

NIKIFOROVSKAYA, T.A.; SUPRUN, M.N.; GASPARYAN, A.M., prof., otv.red.;
SHEVCHENKO, F.Ya., tekhn.red.

[List of dissertations defended at the First Leningrad Medical
Institute from 1935 to 1958] Uказател' dissertatsii, zashchi-
shchennykh v I Leningradskom meditsinskem institute v 1935-1958 gg.
Leningrad, Medgiz, 1959. 83 p. (MIRA 14:12)

1. Leningrad. Pervyy Leningradskiy meditsinskiy institut.
(LENINGRAD--BIBLIOGRAPHY--DISSERTATIONS, ACADEMIC)
(BIBLIOGRAPHY--MEDICINE)

VOYEVODIN, A.F.; GRUZHENTKLY, M.S.; NIKIFOROVSKAYA, V.S.; PRITVITS, N.A.;
SOBSIEL', N.B.

Calculation of unsteady flow on the Iveretsa River by means of
electronic computers. Trudy OGII no.121:88-104 '65.

(MIRA 18:8)

NIKIFOROVSKIY, V.P., Cand Med Sci -- (diss) "Treatment of
certain gynecological diseases by the method of implanting
of placenta. (Based on Academician V.P. Filatov.)" Len., 1971
13 pp. (Len pediatrics med zashch. 23 no. 03 '71, v. 48, p. 30)

- 1n. -

NIKIFOROVSKIY, N. N.

621.316.57.067.4

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2 PKD

659. Control of h.v. circuit breakers by the operating alternating current. L. K. OREINGER AND N. N. NIKIFOROVSKIY. Elektricheskoye, 1953, No. 3, 50-6.

In Russian.

The main criteria for choice of circuit-breaker drives are the rating of the breaker, or breakers (since combined drives for a number of breakers may be advantageous), the location of the rectifiers (if any), the power of the supply transformer and cable sections of the supply to the drive, the expected service life of the installation, space available, mechanical requirements and total cost. The type of rectifiers to be used is of great importance, since solid rectifiers will be preferred wherever it is possible to use them, although powerful installations will require electronic convertors, of which ignitrons are particularly suitable. If 3-phase circuits are chosen, it is possible to dispense with transformation.

R. F. KRAUS

5/20/54

NIKIFOROVSKIY, N.N., kand.tekhn.nauk

A method of determining voltage and currents of a synchronous
generator under an asymmetrical load. Sudostroenie 30 no.2;33-35
(MIRA 17:4)
F '64.

NIKIFOROVSKIY, N.N., dozent, kandidat tekhnicheskikh nauk (Leningrad);
LIVSHITS, S.M., inzhener.

Protecting shop networks with automatic and safety cutouts.
Elektrичество no.1:73-75 Ja '55. (MLRA 7:12)

1. Tyazhpromelektroproekt (for Livshits)
(Electric cutouts)

NIKIFOROVSKIY, Nikolay Nikolayevich; NOVNEVSKIY, Boris Ivanovich;
GORYANSKIY, Yu.V., red.

[Marine electric power plants] Sudovye elektricheskie
stantsii. Moskva, Transport, 1964. 502 p.
(MIRA 18:2)

FREYMAN, Leon Semenovich MIKIFOROVSKIY, V.A., red.

[What is higher mathematics; how it differs from school
mathematics, and what it is required for] Chto takoe
vysshiaia matematika, chem ona otlichatsia ot shkol'noi,
zachem ona nuzhna. Moskva, Nauka, 1986, 151 p.
(MIR 1987)

"APPROVED FOR RELEASE: 07/13/2001

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REF ID: A6513R001136920016-2

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APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001136920016-2"

NIKIFOROVSKIY, N.N., kand.tekhn.nauk

Forced excitation in synchronous machines. Elektrichestvo no.9:
44-48 S '63. (MIRA 16:10)

1. Leningradskiy filial Vsesoyuznogo elektrotekhnicheskogo
instituta im. Lenina.

NIKIFOROVSKIY, Viktor Arsen'yevich; SHULEYKIN, V.V., akademik, otv.red.;
KLYAUS, Ye.M., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Expcition on the "Sedov" to explore the Atlantic Ocean]
Ekspeditsiya na "Sedove" v Atlanticheskii okean. Moskva,
Izd-vo Akad.nauk SSSR, 1962. 93 p.

(MIRA 15:5)

(Atlantic Ocean—Oceanographic research)

ZOLOTARSKIY, A.F., kand.tekhn.nauk; NIKIFOROVSKIY, V.D., inzh.

Lengthening the life of wooden ties. Zhel.dor.transp.
42 no.1:46-51 Ja '60. (MIRA 13:5)
(Railroads--Ties)

NIKIFOROVSKIY, V.D.

First results of the operation of a track with narrowed gauge
in straight sections. Put' i put.khoz. 6 no.5:21-25 '62.
(MIRA 15:4)
1. Rukovoditel' otdeleniya puti Vsesoyuznogo nauchno-issledovatel'skogo instituta zhelezodorozhnogo transporta.
(Railroads--Track)

NIKIFOROVSKIY, V. S. (Novosibirsk)

Study of the dynamic field of stresses in an elastic half-space near the point of application of a surface load. PMTF no.2:85-94 Mr-Ap '62. (MIRA 16:1)

(Elasticity) (Strains and stresses)

6100

S 207 62 000 003 010 016
1018/1228

AUTHOR: Nikiforovskiy, V. S. and Shemyakin, Ye. I. (Novosibirsk)

TITLE: Isobars of the components of the stress tensor in an elastic half-space in the case of a concentrated vertical dynamical action on the surface

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1962, 59 65

TEXT: The article deals with a graphical examination of the main peculiarities of the dynamic field of stresses created in an elastic half-space under the action of a vertical load increasing with time by a linear law. Two main representations are used: a) the isobars of the different components of the tensor of stresses $\sigma_x, \sigma_r, \sigma_\theta, \tau_{rz}$ are represented graphically and considered in detail; b) the isobars of the intensity of the tangential stresses in the vicinity of surfaces in which are concentrated dangerous strains are investigated. The authors thank S. A. Khristianovich for his comments. There are 9 figures.

PRESENTED: February 23, 1962

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Card 1/1

ACCESSION NR: AP4034274

S/0207/64/000/002/0081/0089

AUTHOR: Nikiforovskiy, V. S. (Novosibirsk)

TITLE: A study of the dynamic field of stresses in an elastic half space
under the influence of an axisymmetrically distributed load

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1964, 81-89

TOPIC TAGS: elastic isotropic half space, axisymmetrical load, stress field,
digital computer expression, theoretical oscillogramABSTRACT: This paper is a continuation of the studies dealing with the dynamic
stress condition of an elastic isotropic half-space under the influence of a load.
The basic results for the problem of a vertical force at the point center of a
surface were presented previously by V. S. Nikiforovskiy (Issledovaniye
dinamicheskogo polya napryazheniy v uprugom poluprostranstve v okrestnosti tochki
prilozheniya poverkhnostnoy nagruzki. PMTF, 1962, No. 2) and V. S. Nikiforovskiy,
and Ye. I. Shemyakin (Izobary* komponent tenzora napryazheniy v uprugom
poluprostranstve pri sosredotochennom vertikal'nom dinamicheskem vozdeystvii na
poverkhnosti. PMTF, 1962, No. 3). The practical importance of a load distributed
over a certain surface indicated that an analogous treatment for this case would

Card 1/5

ACCESSION NR: AP4034274

lead to a fuller study of the stress condition and to a more specific determination of the stress mechanism in an elastic half-space. The transitional distributed load, growing at a constant rate m , was given by

$$P_r(r, 0, t) = \frac{1}{2\pi} \frac{n^2}{(1 + n^2 r^2)^{1/2}} f(t), \quad f(t) = m t \epsilon(t) \quad (\epsilon(t) = \begin{cases} 0 & (t < 0) \\ 1 & (t > 0) \end{cases})$$

Previously, only the limiting value $n \rightarrow \infty$ was fully studied. The solution for a constantly growing load (the fundamental solution) for a distributed load was written in the dimensionless form as

$$\left[\begin{array}{l} \sum_i = \frac{k}{r^2} \sum'_i (\xi, \eta, l, \tau) \\ k = \frac{m}{2\pi \lambda_1 V_s}, \quad l' = \frac{l V_s}{\lambda_1} \\ l = \frac{1}{l' V_s}, \quad \lambda_1 = T V_s, \quad \xi = \frac{r}{V_s} \\ \eta = \frac{s}{l' V_s}, \quad \tau = \frac{V_s}{V_p} \end{array} \right]$$

The quantities \sum_i and \sum'_i define, in the case of the axisymmetrical problem, any of the 4 components σ_z , σ_r , σ_θ , τ_{rz} , of the stress tensor; s, η, l, t^*

Card 2/5

ACCESSION NR: AP4034274

are dimensionless coordinates for the parameter of load distribution and time; V_p and V_g are the propagation speeds of the longitudinal and transverse waves; λ_1 is the wavelength; and T is the duration of the compression phase. The stress must be studied over different moments of time. The wave picture for a distributed load differs from that of a point-centered load. Figure 1 of the Enclosure shows the load and resulting wave fronts: P is the longitudinal wave front (compression) and S is the transverse wave front (shear). In addition, the fronts P^* , S^* , K^* and R^* of the limiting value $n \rightarrow \infty$ ($\ell = 0$) (point load) are shown. With the smooth transition $\ell \rightarrow 0$, the wave picture easily changes from one to the other. The most effective study method of the double integral solution (still cumbersome) is reduction to real integrals and a finite number of elementary functions. The compositions $\sum_{oR,p}$ of the dimensionless function \sum_z' of the component σ_z answer the statistical Rayleigh terms and real integrals. The difference of the wave pictures is determined by the wave propagation speed difference leading to a different mathematical expression of the stress components. Formulas are given representing the point solution of the dynamic distributed load for σ_z components. The other three components may be written similarly and are very satisfactory for digital computer use. The numerical study was of a

3/5

Card

ACCESSION NR: AP4034274

material near in character to hard rock ($\gamma = 1/\sqrt{3}$, $v_p = 4500 \text{ m/sec}$). The study presented theoretical oscillograms and isobars of the fundamental solution of the stress field. Orig. art. has: 13 equations and 12 figures.

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4/5

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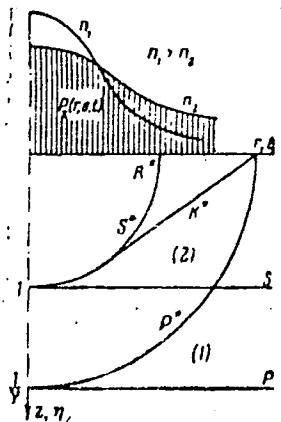


Fig. 1. Load and wave fronts.

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5/5

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TITLE: Electric field on the axis of a charged disk with a concentric hole

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TOPIC TAGS: electric field, disk, edge effect

ABSTRACT: The electric field is determined on the axis of a charged disk with a concentric hole with and without consideration of the edge effect. [Based on authors' abstract] [AM]

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